

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/549,474  
Source: PCR/10  
Date Processed by STIC: 10/3/05

# ***ENTERED***

# **CRF Errors Edited by the STIC Systems Branch**

Serial Number: 10/549,474

CRF Edit Date: 10/5/05  
Edited by: h

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted:    invalid beginning/end-of-file text ;    page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



PCT10

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/549,474

DATE: 10/05/2005

TIME: 17:08:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10052005\J549474.raw

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3 <110> APPLICANT: Sueishi, Katsuo
4     Yonemitsu, Yoshikazu
5     Yamashita, Akihisa
6     Yoshimura, Akihiko
7     Hasegawa, Mamoru
9 <120> TITLE OF INVENTION: Methods of Treating Inflammatory Diseases
10    Associated With Bone Destruction (as amended)
12 <130> FILE REFERENCE: 50026/055001
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/549,474
C--> 14 <141> CURRENT FILING DATE: 2005-09-14
14 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/002887
15 <151> PRIOR FILING DATE: 2004-03-05
17 <150> PRIOR APPLICATION NUMBER: JP 2003-075964
18 <151> PRIOR FILING DATE: 2003-03-19
20 <160> NUMBER OF SEQ ID NOS: 6
22 <170> SOFTWARE: PatentIn version 3.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 900
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
29 <220> FEATURE:
30 <221> NAME/KEY: CDS
31 <222> LOCATION: (1)..(900)
32 <223> OTHER INFORMATION:
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37 1          5          10          15
39 aca ctc tgc acc gct agg ccg tcc ccg acc ttg cct gaa caa gat gct      96
40 Thr Leu Cys Thr Ala Arg Pro Ser Pro Thr Leu Pro Glu Gln Asp Ala
41          20          25          30
43 ctc ccc tcc tcg gag gat gat gat gat gat gac tcc tct tca gag      144
44 Leu Pro Ser Ser Glu Asp Asp Asp Asp Asp Asp Ser Ser Ser Glu
45          35          40          45
47 gag aaa gaa aca gat aac acc aaa cca aac ccc gta gct cca tat tgg      192
48 Glu Lys Glu Thr Asp Asn Thr Lys Pro Asn Pro Val Ala Pro Tyr Trp
49          50          55          60
51 aca tcc cca gaa aag atg gaa aag aaa ttg cat gca gtg ccg gct gcc      240
52 Thr Ser Pro Glu Lys Met Glu Lys Lys Leu His Ala Val Pro Ala Ala
53 65          70          75          80
55 aag aca gtg aag ttc aaa tgc cct tcc agt ggg acc cca aac ccc aca      288
56 Lys Thr Val Lys Phe Lys Cys Pro Ser Ser Gly Thr Pro Asn Pro Thr
57          85          90          95

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## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/10/549,474

TIME: 17:08:07

Input Set : A:\PTO.AMC.txt

Output Set : N:\CRF4\10052005\J549474.raw

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59 ctg cgc tgg ttg aaa aat ggc aaa gaa ttc aaa cct gac cac aga att      336
60 Leu Arg Trp Leu Lys Asn Gly Lys Glu Phe Lys Pro Asp His Arg Ile
61          100          105          110
63 gga ggc tac aag gtc cgt tat gcc acc tgg agc atc ata atg gac tct      384
64 Gly Gly Tyr Lys Val Arg Tyr Ala Thr Trp Ser Ile Ile Met Asp Ser
65          115          120          125
67 gtg gtg ccc tct gac aag ggc aac tac acc tgc att gtg gag aat gag      432
68 Val Val Pro Ser Asp Lys Gly Asn Tyr Thr Cys Ile Val Glu Asn Glu
69          130          135          140
71 tac ggc agc atc aac cac aca tac cag ctg gat gtc gtg gag cgg tcc      480
72 Tyr Gly Ser Ile Asn His Thr Tyr Gln Leu Asp Val Val Glu Arg Ser
73 145          150          155          160
75 cct cac cgg ccc atc ctg caa gca ggg ttg ccc gcc aac aaa aca gtg      528
76 Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Lys Thr Val
77          165          170          175
79 gcc ctg ggt agc aac gtg gag ttc atg tgt aag gtg tac agt gac ccg      576
80 Ala Leu Gly Ser Asn Val Glu Phe Met Cys Lys Val Tyr Ser Asp Pro
81          180          185          190
83 cag ccg cac atc cag tgg cta aag cac atc gag gtg aat ggg agc aag      624
84 Gln Pro His Ile Gln Trp Leu Lys His Ile Glu Val Asn Gly Ser Lys
85          195          200          205
87 att ggc cca gac aac ctg cct tat gtc cag atc ttg aag gta atc atg      672
88 Ile Gly Pro Asp Asn Leu Pro Tyr Val Gln Ile Leu Lys Val Ile Met
89          210          215          220
91 gca cca gtc ttc gtg ggc cag tct act ggg aag gag acc act gtc tcg      720
92 Ala Pro Val Phe Val Gly Gln Ser Thr Gly Lys Glu Thr Thr Val Ser
93 225          230          235          240
95 ggg gct caa gtt cct gtg ggc agg ctc agt tgc ccc cga atg gga tca      768
96 Gly Ala Gln Val Pro Val Gly Arg Leu Ser Cys Pro Arg Met Gly Ser
97          245          250          255
99 ttc ctc acg ctt cag gca cac aca ctc cat ctc agt agg gat cta gcc      816
100 Phe Leu Thr Leu Gln Ala His Thr Leu His Leu Ser Arg Asp Leu Ala
101          260          265          270
103 aca tcc ccc agg act agt aac aga ggt cac aaa gtg gag gtg agc tgg      864
104 Thr Ser Pro Arg Thr Ser Asn Arg Gly His Lys Val Glu Val Ser Trp
105          275          280          285
107 gaa cag agg gct gca ggg atg ggt ggt gct ggt ctg      900
108 Glu Gln Arg Ala Ala Gly Met Gly Gly Ala Gly Leu
109          290          295          300
111 <210> SEQ ID NO: 2
112 <211> LENGTH: 300
113 <212> TYPE: PRT
114 <213> ORGANISM: Homo sapiens
116 <400> SEQUENCE: 2
118 Met Trp Ser Trp Lys Cys Leu Leu Phe Trp Ala Val Leu Val Thr Ala
119 1          5          10          15
121 Thr Leu Cys Thr Ala Arg Pro Ser Pro Thr Leu Pro Glu Gln Asp Ala
122          20          25          30
124 Leu Pro Ser Ser Glu Asp Asp Asp Asp Asp Asp Asp Ser Ser Ser Glu

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/549,474

DATE: 10/05/2005

TIME: 17:08:07

Input Set : A:\PTO.AMC.txt

Output Set : N:\CRF4\10052005\J549474.raw

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125          35          40          45
127 Glu Lys Glu Thr Asp Asn Thr Lys Pro Asn Pro Val Ala Pro Tyr Trp
128          50          55          60
130 Thr Ser Pro Glu Lys Met Glu Lys Lys Leu His Ala Val Pro Ala Ala
131 65          70          75          80
133 Lys Thr Val Lys Phe Lys Cys Pro Ser Ser Gly Thr Pro Asn Pro Thr
134          85          90          95
136 Leu Arg Trp Leu Lys Asn Gly Lys Glu Phe Lys Pro Asp His Arg Ile
137          100          105          110
139 Gly Gly Tyr Lys Val Arg Tyr Ala Thr Trp Ser Ile Ile Met Asp Ser
140          115          120          125
142 Val Val Pro Ser Asp Lys Gly Asn Tyr Thr Cys Ile Val Glu Asn Glu
143          130          135          140
145 Tyr Gly Ser Ile Asn His Thr Tyr Gln Leu Asp Val Val Glu Arg Ser
146 145          150          155          160
148 Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Lys Thr Val
149          165          170          175
151 Ala Leu Gly Ser Asn Val Glu Phe Met Cys Lys Val Tyr Ser Asp Pro
152          180          185          190
154 Gln Pro His Ile Gln Trp Leu Lys His Ile Glu Val Asn Gly Ser Lys
155          195          200          205
157 Ile Gly Pro Asp Asn Leu Pro Tyr Val Gln Ile Leu Lys Val Ile Met
158          210          215          220
160 Ala Pro Val Phe Val Gly Gln Ser Thr Gly Lys Glu Thr Thr Val Ser
161 225          230          235          240
163 Gly Ala Gln Val Pro Val Gly Arg Leu Ser Cys Pro Arg Met Gly Ser
164          245          250          255
166 Phe Leu Thr Leu Gln Ala His Thr Leu His Leu Ser Arg Asp Leu Ala
167          260          265          270
169 Thr Ser Pro Arg Thr Ser Asn Arg Gly His Lys Val Glu Val Ser Trp
170          275          280          285
172 Glu Gln Arg Ala Ala Gly Met Gly Gly Ala Gly Leu
173          290          295          300

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176 &lt;210&gt; SEQ ID NO: 3

177 &lt;211&gt; LENGTH: 945

178 &lt;212&gt; TYPE: DNA

179 &lt;213&gt; ORGANISM: Homo sapiens

181 &lt;220&gt; FEATURE:

182 &lt;221&gt; NAME/KEY: CDS

183 &lt;222&gt; LOCATION: (1)..(945)

184 &lt;223&gt; OTHER INFORMATION:

W--&gt; 186 &lt;400&gt; 3

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187 atg gag gcc aga gct cag agt ggc aac ggg tcg cag ccc ttg ctg cag      48
188 Met Glu Ala Arg Ala Gln Ser Gly Asn Gly Ser Gln Pro Leu Leu Gln
189 1          5          10          15
191 acg ccc cgt gac ggt ggc aga cag cgt ggg gag ccc gac ccc aga gac      96
192 Thr Pro Arg Asp Gly Gly Arg Gln Arg Gly Glu Pro Asp Pro Arg Asp
193          20          25          30
195 gcc ctc acc cag cag gta cat gtc ttg tct ctg gat cag atc aga gcc      144

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## RAW SEQUENCE LISTING

DATE: 10/05/2005

PATENT APPLICATION: US/10/549,474

TIME: 17:08:07

Input Set : A:\PTO.AMC.txt

Output Set : N:\CRF4\10052005\J549474.raw

196	Ala	Leu	Thr	Gln	Gln	Val	His	Val	Leu	Ser	Leu	Asp	Gln	Ile	Arg	Ala	
197			35					40					45				
199	atc	cga	aac	acc	aat	gag	tac	aca	gag	ggg	cct	act	gtc	gtc	cca	aga	192
200	Ile	Arg	Asn	Thr	Asn	Glu	Tyr	Thr	Glu	Gly	Pro	Thr	Val	Val	Pro	Arg	
201		50					55					60					
203	cct	ggg	ctc	aag	cct	gct	cct	cgc	ccc	tcc	act	cag	cac	aaa	cac	gag	240
204	Pro	Gly	Leu	Lys	Pro	Ala	Pro	Arg	Pro	Ser	Thr	Gln	His	Lys	His	Glu	
205	65					70					75					80	
207	aga	ctc	cac	ggt	ctg	cct	gag	cac	cgc	cag	cct	cct	agg	ctc	cag	cac	288
208	Arg	Leu	His	Gly	Leu	Pro	Glu	His	Arg	Gln	Pro	Pro	Arg	Leu	Gln	His	
209				85						90					95		
211	tcg	cag	gtc	cat	tct	tct	gca	cga	gcc	cct	ctg	tcc	aga	tcc	ata	agc	336
212	Ser	Gln	Val	His	Ser	Ser	Ala	Arg	Ala	Pro	Leu	Ser	Arg	Ser	Ile	Ser	
213				100					105					110			
215	acg	gtc	agc	tca	ggg	tcg	cgg	agc	agt	acg	agg	aca	agt	acc	agc	agc	384
216	Thr	Val	Ser	Ser	Gly	Ser	Arg	Ser	Ser	Thr	Arg	Thr	Ser	Thr	Ser	Ser	
217			115					120					125				
219	agc	tcc	tct	gaa	cag	aga	ctg	cta	gga	tca	tcc	ttc	tcc	tcc	ggg	cct	432
220	Ser	Ser	Ser	Glu	Gln	Arg	Leu	Leu	Gly	Ser	Ser	Phe	Ser	Ser	Gly	Pro	
221		130					135					140					
223	gtt	gct	gat	ggc	ata	atc	cgg	gtg	caa	ccc	aaa	tct	gag	ctc	aag	cca	480
224	Val	Ala	Asp	Gly	Ile	Ile	Arg	Val	Gln	Pro	Lys	Ser	Glu	Leu	Lys	Pro	
225	145				150					155					160		
227	ggt	gag	ctt	aag	cca	ctg	agc	aag	gaa	gat	ttg	ggc	ctg	cac	gcc	tac	528
228	Gly	Glu	Leu	Lys	Pro	Leu	Ser	Lys	Glu	Asp	Leu	Gly	Leu	His	Ala	Tyr	
229				165					170					175			
231	agg	tgt	gag	gac	tgt	ggc	aag	tgc	aaa	tgt	aag	gag	tgc	acc	tac	cca	576
232	Arg	Cys	Glu	Asp	Cys	Gly	Lys	Cys	Lys	Cys	Lys	Glu	Cys	Thr	Tyr	Pro	
233				180				185						190			
235	agg	cct	ctg	cca	tca	gac	tgg	atc	tgc	gac	aag	cag	tgc	ctt	tgc	tcg	624
236	Arg	Pro	Leu	Pro	Ser	Asp	Trp	Ile	Cys	Asp	Lys	Gln	Cys	Leu	Cys	Ser	
237			195					200					205				
239	gcc	cag	aac	gtg	att	gac	tat	ggg	act	tgt	gta	tgc	tgt	gtg	aaa	ggc	672
240	Ala	Gln	Asn	Val	Ile	Asp	Tyr	Gly	Thr	Cys	Val	Cys	Cys	Val	Lys	Gly	
241		210					215					220					
243	ctc	ttc	tat	cac	tgt	tct	aat	gat	gat	gag	gac	aac	tgt	gct	gac	aac	720
244	Leu	Phe	Tyr	His	Cys	Ser	Asn	Asp	Asp	Glu	Asp	Asn	Cys	Ala	Asp	Asn	
245	225				230					235					240		
247	cca	tgt	tct	tgc	agc	cag	tct	cac	tgt	tgt	aca	cga	tgg	tca	gcc	atg	768
248	Pro	Cys	Ser	Cys	Ser	Gln	Ser	His	Cys	Cys	Thr	Arg	Trp	Ser	Ala	Met	
249				245					250					255			
251	ggt	gtc	atg	tcc	ctc	ttt	ttg	cct	tgt	tta	tgg	tgt	tac	ctt	cca	gcc	816
252	Gly	Val	Met	Ser	Leu	Phe	Leu	Pro	Cys	Leu	Trp	Cys	Tyr	Leu	Pro	Ala	
253			260					265					270				
255	aag	ggt	tgc	ctt	aaa	ttg	tgc	cag	ggg	tgt	tat	gac	cgg	gtt	aac	agg	864
256	Lys	Gly	Cys	Leu	Lys	Leu	Cys	Gln	Gly	Cys	Tyr	Asp	Arg	Val	Asn	Arg	
257			275					280				285					
259	cct	ggt	tgc	cgc	tgt	aaa	aac	tca	aac	aca	gtt	tgc	tgc	aaa	gtt	ccc	912
260	Pro	Gly	Cys	Arg	Cys	Lys	Asn	Ser	Asn	Thr	Val	Cys	Cys	Lys	Val	Pro	

## RAW SEQUENCE LISTING

DATE: 10/05/2005

PATENT APPLICATION: US/10/549,474

TIME: 17:08:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10052005\J549474.raw

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263 act gtc ccc cct agg aac ttt gaa aaa cca aca
264 Thr Val Pro Pro Arg Asn Phe Glu Lys Pro Thr
265 305      310      315
268 <210> SEQ ID NO: 4
269 <211> LENGTH: 315
270 <212> TYPE: PRT
271 <213> ORGANISM: Homo sapiens
273 <400> SEQUENCE: 4
275 Met Glu Ala Arg Ala Gln Ser Gly Asn Gly Ser Gln Pro Leu Leu Gln
276 1      5      10      15
278 Thr Pro Arg Asp Gly Gly Arg Gln Arg Gly Glu Pro Asp Pro Arg Asp
279      20      25      30
281 Ala Leu Thr Gln Gln Val His Val Leu Ser Leu Asp Gln Ile Arg Ala
282      35      40      45
284 Ile Arg Asn Thr Asn Glu Tyr Thr Glu Gly Pro Thr Val Val Pro Arg
285      50      55      60
287 Pro Gly Leu Lys Pro Ala Pro Arg Pro Ser Thr Gln His Lys His Glu
288 65      70      75      80
290 Arg Leu His Gly Leu Pro Glu His Arg Gln Pro Pro Arg Leu Gln His
291      85      90      95
293 Ser Gln Val His Ser Ser Ala Arg Ala Pro Leu Ser Arg Ser Ile Ser
294      100     105     110
296 Thr Val Ser Ser Gly Ser Arg Ser Ser Thr Arg Thr Ser Thr Ser Ser
297      115     120     125
299 Ser Ser Ser Glu Gln Arg Leu Leu Gly Ser Ser Phe Ser Ser Gly Pro
300      130     135     140
302 Val Ala Asp Gly Ile Ile Arg Val Gln Pro Lys Ser Glu Leu Lys Pro
303 145     150     155     160
305 Gly Glu Leu Lys Pro Leu Ser Lys Glu Asp Leu Gly Leu His Ala Tyr
306      165     170     175
308 Arg Cys Glu Asp Cys Gly Lys Cys Lys Cys Lys Glu Cys Thr Tyr Pro
309      180     185     190
311 Arg Pro Leu Pro Ser Asp Trp Ile Cys Asp Lys Gln Cys Leu Cys Ser
312      195     200     205
314 Ala Gln Asn Val Ile Asp Tyr Gly Thr Cys Val Cys Cys Val Lys Gly
315      210     215     220
317 Leu Phe Tyr His Cys Ser Asn Asp Asp Glu Asp Asn Cys Ala Asp Asn
318 225     230     235     240
320 Pro Cys Ser Cys Ser Gln Ser His Cys Cys Thr Arg Trp Ser Ala Met
321      245     250     255
323 Gly Val Met Ser Leu Phe Leu Pro Cys Leu Trp Cys Tyr Leu Pro Ala
324      260     265     270
326 Lys Gly Cys Leu Lys Leu Cys Gln Gly Cys Tyr Asp Arg Val Asn Arg
327      275     280     285
329 Pro Gly Cys Arg Cys Lys Asn Ser Asn Thr Val Cys Cys Lys Val Pro
330      290     295     300
332 Thr Val Pro Pro Arg Asn Phe Glu Lys Pro Thr
333 305      310      315

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/549,474

DATE: 10/05/2005

TIME: 17:08:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10052005\J549474.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:34 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:32  
L:186 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:184  
L:346 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:344



**Raw Sequence Listing before editing  
(for reference only)**



PCT

## RAW SEQUENCE LISTING

DATE: 10/03/2005

PATENT APPLICATION: US/10/549,474

TIME: 14:12:21

Input Set : A:\50026.055001 D3-A0206Psq.txt

Output Set: N:\CRF4\10032005\J549474.raw

3 <110> APPLICANT: Sueishi, Katsuo  
 4 Yonemitsu, Yoshikazu  
 5 Yamashita, Akihisa  
 6 Yoshimura, Akihiko  
 7 Hasegawa, Mamoru  
 9 <120> TITLE OF INVENTION: Methods of Treating Inflammatory Diseases  
 10 Associated With Bone Destruction (as amended)  
 12 <130> FILE REFERENCE: 50026/055001  
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/549,474  
 C--> 14 <141> CURRENT FILING DATE: 2005-09-14  
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/002887  
 15 <151> PRIOR FILING DATE: 2004-03-05  
 17 <150> PRIOR APPLICATION NUMBER: JP 2003-075964  
 18 <151> PRIOR FILING DATE: 2003-03-19  
 20 <160> NUMBER OF SEQ ID NOS: 6  
 22 <170> SOFTWARE: PatentIn version 3.1

## ERRORED SEQUENCES

452 <210> SEQ ID NO: 6  
 453 <211> LENGTH: 410  
 454 <212> TYPE: PRT  
 455 <213> ORGANISM: Mus musculus  
 457 <400> SEQUENCE: 6  
 459 Met Thr Glu Glu Thr His Pro Asp Asp Asp Ser Tyr Ile Val Arg Val  
 460 1 5 10 15  
 462 Lys Ala Val Val Met Thr Arg Asp Asp Ser Ser Gly Gly Trp Phe Pro  
 463 20 25 30  
 465 Gln Glu Gly Gly Gly Ile Ser Arg Val Gly Val Cys Lys Val Met His  
 466 35 40 45  
 468 Pro Glu Gly Asn Gly Arg Ser Gly Phe Leu Ile His Gly Glu Arg Gln  
 469 50 55 60  
 471 Lys Asp Lys Leu Val Val Leu Glu Cys Tyr Val Arg Lys Asp Leu Val  
 472 65 70 75 80  
 474 Tyr Thr Lys Ala Asn Pro Thr Phe His His Trp Lys Val Asp Asn Arg  
 475 85 90 95  
 477 Lys Phe Gly Leu Thr Phe Gln Ser Pro Ala Asp Ala Arg Ala Phe Asp  
 478 100 105 110  
 480 Arg Gly Val Arg Lys Ala Ile Glu Asp Leu Ile Glu Gly Ser Thr Thr  
 481 115 120 125  
 483 Ser Ser Ser Thr Leu His Asn Glu Ala Glu Leu Gly Asp Asp Asp Val  
 484 130 135 140

Does Not Comply  
 Corrected Diskette Needed

## RAW SEQUENCE LISTING

DATE: 10/03/2005

PATENT APPLICATION: US/10/549,474

TIME: 14:12:21

Input Set : A:\50026.055001 D3-A0206Psq.txt

Output Set: N:\CRF4\10032005\J549474.raw

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486 Phe Thr Thr Ala Thr Asp Ser Ser Ser Asn Ser Ser Gln Lys Arg Glu
487 145          150          155          160
489 Pro Thr Thr Arg Thr Ile Ser Ser Pro Thr Ser Cys Glu His Arg Lys
490          165          170          175
492 Ile Tyr Thr Leu Asp Pro Tyr Pro Met Asp His Tyr His Pro Asp Gln
493          180          185          190
495 Arg Leu Pro Arg Ser Tyr Pro Gln Val Thr Phe Pro Glu Asp Asp Glu
496          195          200          205
498 Glu Ile Val Arg Ile Asn Pro Arg Glu Lys Ile Trp Met Thr Gly Tyr
499          210          215          220
501 Glu Asp Tyr Arg His Ala Pro Val Arg Gly Lys Tyr Leu Asp Thr Thr
502 225          230          235          240
504 Glu Asp Ala Asp Ser Tyr Val Arg Phe Ala Lys Gly Glu Val Pro Lys
505          245          250          255
507 His Glu Tyr Thr Tyr Pro Tyr Val Asp Ser Ser Asp Phe Gly Phe Gly
508          260          265          270
510 Glu Asp Pro Lys Gly Ser Val Ile Lys Thr Gln Pro Pro Arg Ala Lys
511          275          280          285
513 Ser Arg Arg Arg Lys Glu Asn Gly Glu Arg Ser Arg Cys Val Tyr Cys
514          290          295          300
516 Arg Asp Met Phe Asn His Glu Glu Asn Arg Arg Gly His Cys Gln Asp
517 305          310          315          320
519 Ala Pro Asp Ala Val Arg Thr Cys Ile Arg Arg Val Ser Cys Met Trp
520          325          330          335
522 Cys Ala Asp Ser Met Leu Tyr His Cys Met Ser Asp Pro Glu Gly Asp
523          340          345          350
525 Tyr Thr Asp Pro Cys Ser Cys Asp Thr Ser Asp Glu Lys Phe Cys Leu
526          355          360          365
528 Arg Trp Met Ala Leu Ile Ala Leu Ser Phe Leu Ala Pro Cys Met Cys
529          370          375          380
531 Cys Tyr Leu Pro Leu Arg Ala Cys His Arg Cys Gly Val Met Cys Arg
532 385          390          395          400
534 Cys Cys Gly Gly Lys His Lys Ala Ala Ala
535          405          410

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E--&gt; 543 1

**VERIFICATION SUMMARY**

DATE: 10/03/2005

PATENT APPLICATION: US/10/549,474

TIME: 14:12:22

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Output Set: N:\CRF4\10032005\J549474.raw

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:34 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:32  
L:186 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:184  
L:346 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:344  
L:543 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6